1. Alignment and Adjustments

1-1 Tuner

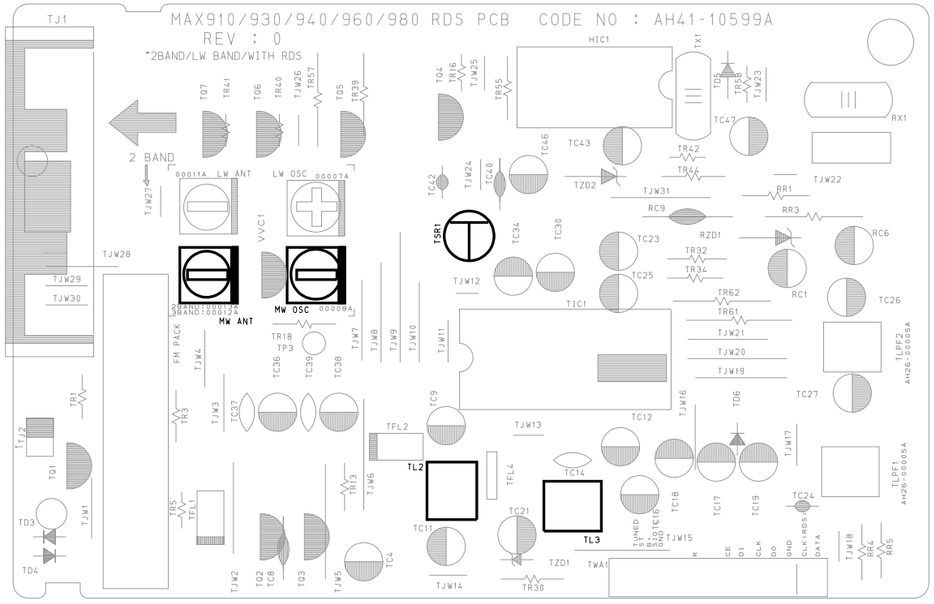

Fig1-1. Adjustment location of Tuner Part

FM Search Level Adjustment	
SSG FREQ.	98 MHz
Adjustment point (TSR1)	BEACON SENSITIVITY SEMI-VR(10KΩ)
Output	1kHz 28dB
Adjust IVR1 so that "TUNED" of FLT is lighted (Figure 1-3)	
4Gain : 20dB(CE standard)	

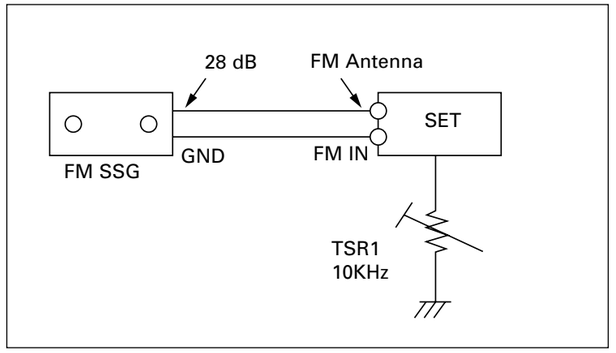

Figure1-3 FM Auto Search Level Adjustment

AM(MW) I.F Adjustment	
SSG FREQ.	450 kHz
Frequency	522 kHz
Adjustment point (TL2)	AM I.F COIL
Maximum output (Figure 1-4)	

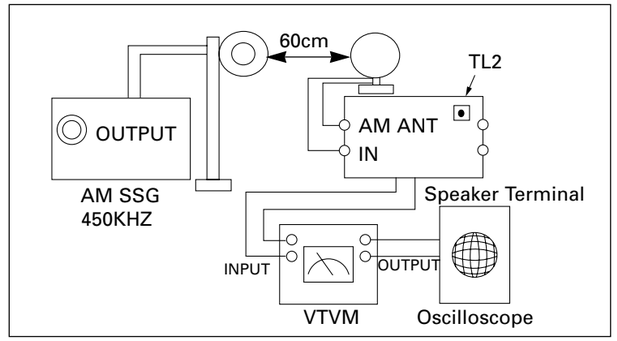

Figure1-4 AM I.F Adjustment

* When adjusting T.H.D., readjust I/F coil on the Tuner Pack.

FM THD Adjustment	
SSG FREQ.	98 MHz
Adjustment point (TL3)	FM DETECTOR COIL
Output	60 dB
Minumum Distortion (0.3% below) (Figure 1-2)	

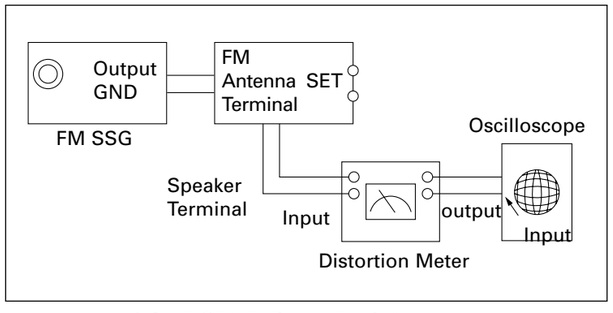

Figure1-2 IF CENTER and THD Adjustment

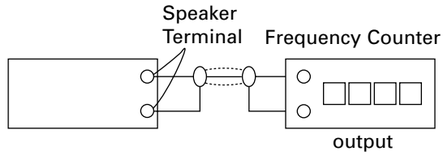

Figure 1-5

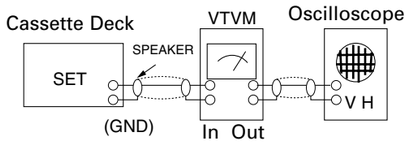

Figure 1-6

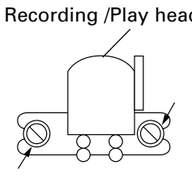

Figure 1-7

1-1-2 AM(MW),LW,SW1,SW2 Adjustment

	Circuit to be Adjusted	Measuring Instrument & Arrangement	Step	S.S.G Frequency	Radio dial Setting	Adjusting Point	Adjust for
AM (MW)	OSC	Connect AM signal generator to loop antenna,VTVM AND oscilloscope (Fig 1-3)	1	522KHz	522KHz	TL11	Aduust for 1.0V±0.1V at the low. (IR117)
			2	1611KHz	1611KHz	-	Check for 7.0V±1.0V at the high. (IR117)
	RF	"	1	594KHz	594KHz	TL10	Maximum out
	DET	"	1	594KHz ATT:60dB	594KHz	-	Check for 1.2V±0.03V at the location NO of IC006(104M) after short-circuit IC1(0.47u).
	INTER FREQ	"	1	455KHz	522KHz	IFT1	Maximum out
LW	OSC	Fig 1-3	1		146KHz	TL6	Aduust for 2.0V±0.1V at the low.
			2		290KHz	-	Check for 7.0V±1.0V at the high.
	RF		1	150KHz	150KHz	TL9	Maximum out
SW1	OSC	Fig 1-3	1		2.3MHz	TL4	Aduust for 1.0V±0.1V at the low.
			2		7.3MHz	-	Check for 8.5V±1.0V at the high.
	RF		1	3.5MHz	3.5MHz	TL8	Maximum out
SW2	OSC	Fig 1-3	1		9.5MHz	TL3	Aduust for 1.5V±0.1V at the low.
			2		26.1MHz	-	Check for 8.0V±1.0V at the high.
	RF		1	10MHz	10MHz	TL5	Maximum out

1-2 Cassette Deck

1-2-1 To Adjust Tape Speed

Notes

* Measuring tape: i) MTT-111 (or equivalent)
(Tapes recorded with 3kHz)
ii) MTT-5512 (or equivalent)

- Adjust SPEED Control

Step	Item	Tape	Pre-Setup	Adjust Point	Standard	Figure	Remark
1	SPEED Control	MTT-111N (3KHZ)	Press play button after puting tape into the Deck1	DVR3	3 kHZ ±1%	Fig. 1-5	Main PCB
2	HI SPEED Control	MTT-111 (3KHZ)		No Adjustment	-	Fig. 1-5	5200~6600Hz Check

- Adjust Record Frequency

Step	Item	Tape	Pre-Setup	Adjust Point	Frequency Range	Figure	Remark
1	L,R Unbalance	MTT-112B (1KHZ)		DVR4	±0.5dB	Fig. 1-6	SPEAKER VTVM (A-DECK)
2	Record Frequency	MTT-5512	Press Rec button after connecting (Fig1-6)	DL4	60KHZ±1KHZ	Fig. 1-6	DCW4

- Adjust Azimuth

Step	Item	Tape	Pre-Setup	Adjust Point	Standard	Figure	Remark
1	Azimuth	MTT-113CN		Adjustment screw of HEAD	8KHZ	Fig. 1-7	Output:Maximum

- Adjust Rec Bias Voltage

Step	Item	Tape	Pre-Setup	Adjust Point	Votage Range	Remark
1	Rec Bias Voltage	MTT-5512 (3KHZ)		SVR1 SVR2	7V±0.5V	Connect to MWF6 from AC Meter.

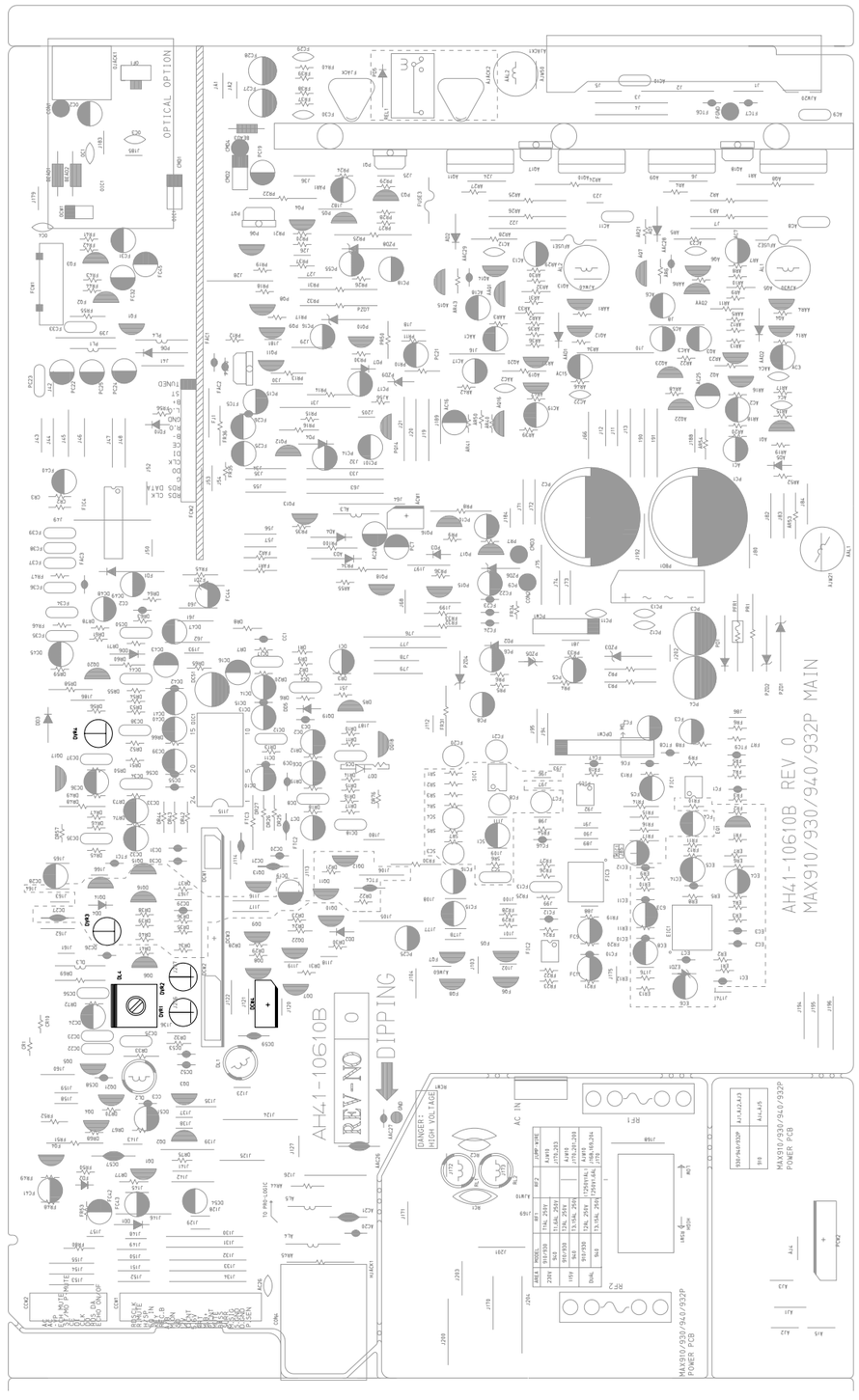

Fig1-8. Adjustment location of Deck Part